Waste Water Drawn Into Reactor 100

Waste Water Flow Continues

Waste Water Is
 Mixed With
 Activated Sludge

Mix Fill Phase

105

Anoxic Environment

Waste Water Flow Continues

 Mixing Of Waste Water And Activated Sludge

 Alternating Aerobic And Anoxic Environments · React Fill Phase

110

 Waster Water Flow Discontinues

 Alternating Aerobic And Anoxic Environments

Waste Water/Solids
 Mixture Directed To
 Membrane Unit For
 Solids Liquids
 Separation

React Discharge Phase

115

FIGURE 1B

Waste Water

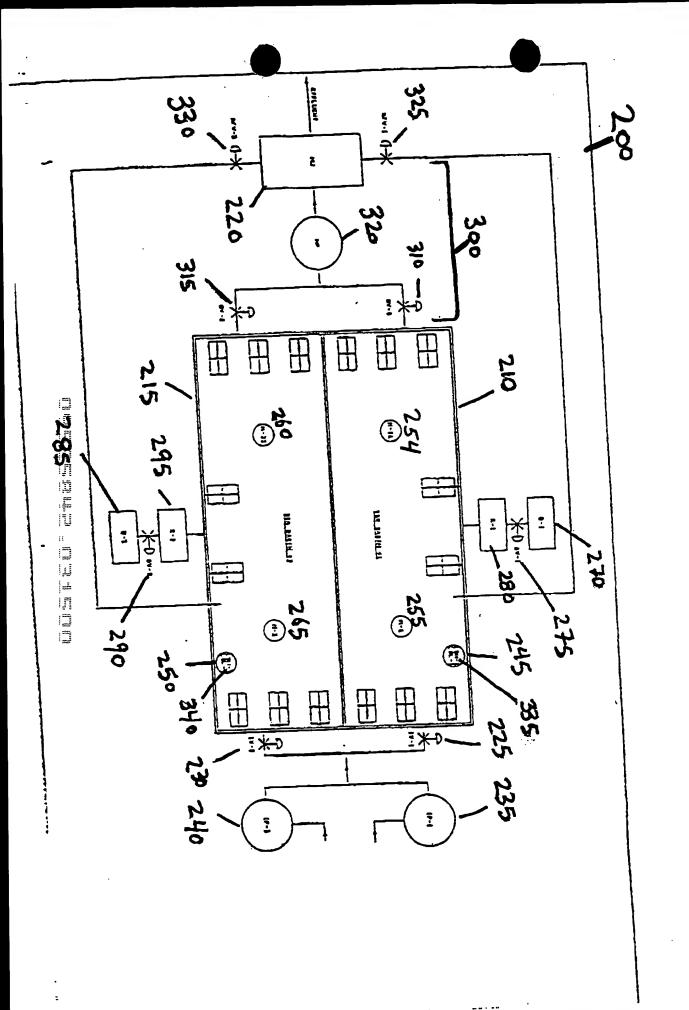
120

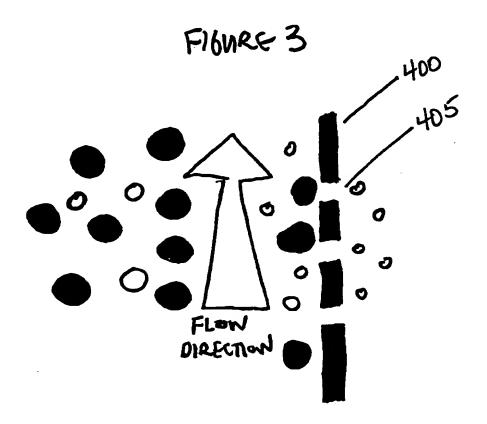
Drawn Into Reactor Waste Water Flow 125 Continues Mix Fill Phase Waste Water Is Mixed With Activated Sludge Anoxic/Anaerobic Environment 130 Waste Water Flow React Fill Phase Continues Mixing Of Waste Water And Activated Sludge Alternating Aerobic And Anoxic Environments 135 Waste Water Flow React Phase Discontinues Alternating Aerobic And Anoxic **Environments**

Phase Time Adjustment

(FIGURE 1B CONTINUED)

•	No Water Flow No Mixing No Aeration Quiescent Environment For Solids/Liquid Separation	Settle Phase	140
		\downarrow	
•	Quiescent Environment Mechanical Decanter Used To Remove Purified Liquid	Decant Phase	145
	•		
•	Quiescent Conditions	Idle Phase	150





- = CONTAMINANT MOLECULE
- 0 = H20 MOLEGULE